

TSMC-01-088B

January 28, 2004

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
28 Davis Avenue
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/725,852 12/02/03

Yi-Hsun Wu et al.

AN EFFECTIVE Vcc TO Vss POWER ESD
PROTECTION DEVICE

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.


The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents
P.O. Box 1450, Alexandria, Va 22313-1450 on February 2, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 2/2/04

TSMC-01-088B

U.S. Patent 5,898,205 to Lee, "Enhanced ESD Protection Circuitry," describes an ESD protection circuit using NMOS and PMOS devices.

U.S. Patent 5,953,601 to Shiue et al., "ESD Implantation Scheme for 0.35uM 3.3V 70A Gate Oxide Process," discloses an ESD implantation step using boron.

U.S. Patent 5,929,493 to Wu, "CMOS Transistors with Self-Aligned Planarization Twin-Well by Using Fewer Mask Counts," teaches a CMOS process using blanket, low dose boron implant to adjust V_{th} for ESD protection devices.

U.S. Patent 5,559,352 to Hsue et al., "ESD Protection Improvement," discloses a method to improve an ESD protection device using ion implantation.

Sincerely,

A handwritten signature in black ink, appearing to be 'SBA', written over a horizontal line.

Stephen B. Ackerman,
Reg. No. 37761

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

FEB 04 2004

(Use several sheets if necessary)

Docket Number (Optional)

TSMC-01-0888

Application Number

10/725,852

Applicant

Yi-Hsun Wu et al.

Filing Date

12/02/03

Group Art Unit

U. S. PATENT DOCUMENTS

EXAMINER'S TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5898205	4/27/99	Lee	257	355	7/11/97
	5953601	9/14/99	Shine et al.	438	200	2/17/98
	5929493	7/27/99	Wu	257	369	3/31/98
	5559352	9/24/96	Hsue et al.	257	328	12/12/94

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.